

STATE OF MISSOURI MISSOURI DEPARTMENT OF NATURAL RESOURCES GEOLOGICAL SURVEY PROGRAM

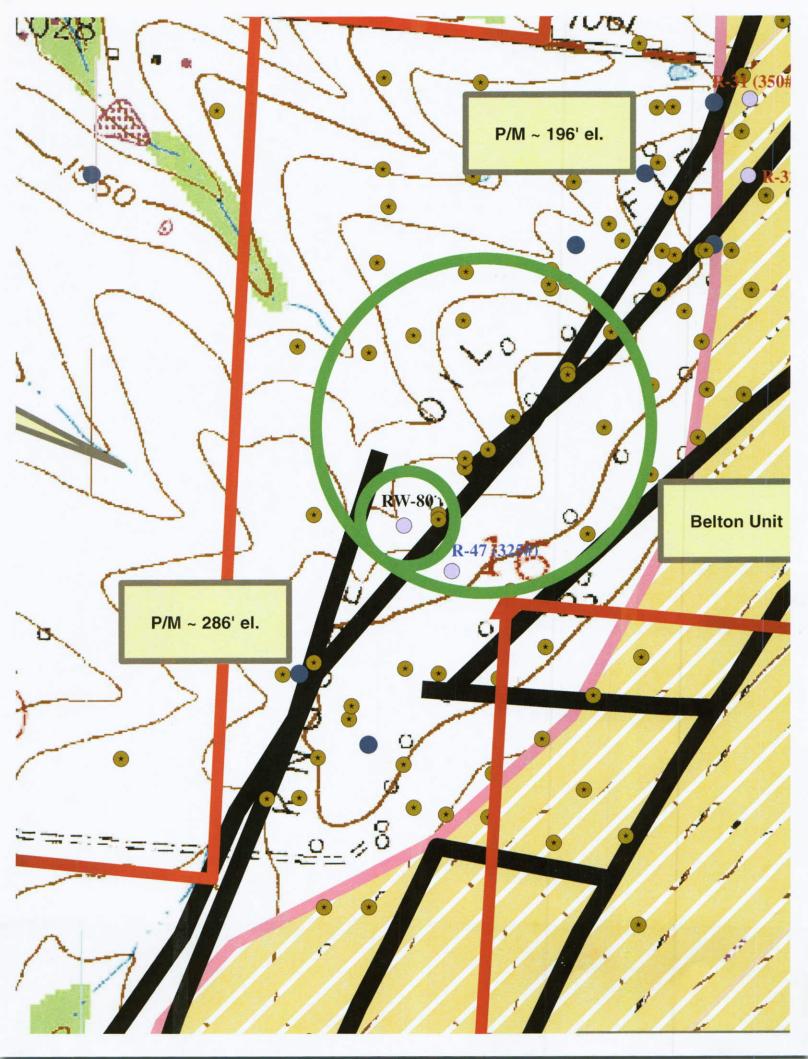
INJECTION WELL PERMIT APPLICATION

(TO DRILL, DEEPEN, PLUG BACK, OR CONVERT AN EXISTING WELL)

| NOTE ▶ | Permit approval for dr reviewed and official n | | ection. Approval | or denial for injection | n determined after | Mechanical Inte | egrity Test re | esults |
|--|--|--|---|--------------------------------------|--|---------------------|---------------------------|-----------------|
| the second | ATION TO DRILL | ☐ DEEPEN | ☐ PLU | G BACK □ | FOR AN OIL W | | OR GAS W | /ELL |
| | ANY OR OPERATOR | | | | | DATE | | |
| Kansas Res | ource Exploration & I | Development, LLC | <i>)</i> | CITY | | 07/28/2012 STATE | ZIP CODE | |
| | th Ctroot Cuita FOO | | | | | Auto anno | 66210 | |
| | th Street, Suite 500 | F40F | | Overland Park | | NS I | 00210 | |
| NAME OF LEASE | ON OF WELL AND | LEASE | MILES AND AND | WELL NUMBER | | ELEVATION (GRO | OUND | |
| Belton Unit | | | | RW-80 | | 1083' | | |
| WELL LOCATION | | | | E FROM SECTION LINES |) | 1000 | | |
| | | t. from 🗌 North 🗸 | | / | n ☑ East ☐ West | section line | | |
| WELL LOCATION | | t. IIOIII 🗀 NOILII 💆 | South Section in | | ONGITUDE / | COUNTY | | |
| Sec 16 T | ownship 46 North | Range 33 □ F | ast 🗸 West | N38 48' 39.121" | W94 34' 41.919" | Cass 63 | 7 | |
| | TANCE FROM PROPOSE | | | LINE 664 VEEET | | , | SPECI FEET PR | AL |
| | OM PROPOSED LOCATION | | | | NATU ON THE CAL | MELEASE 9 | ST PR | OSECT |
| PROPOSED DE | TH ROTARY OR CABLE T | OOLS DRILLING CO | ONTRACTOR, NAME A | AND ADDRESS | WELL ON THE SAI | APPRO | X DATE WORK | WILL START |
| 550 feet 43 | 3 Rotary | Utah Oil, | | | | 08/20/ | | |
| NUMBER OF AC | TO 100 OF 1 A 1 A 1 A 100 OF 1 | | | | | | | |
| | NUMBER | | | S WELL, COMPLETED | IN OR DRILLING TO | O THIS RESERVE | OIR 124 | |
| 560 | NUMBER | OF ABANDONED W | ELLS ON LEASE 0 | | | | | |
| IF LEASE PUR | CHASED WITH ONE OR ! | MORE WELLS DRILLE | ED, FROM WHOM F | PURCHASED? | NO. O | F WELLS PF | RODUCING | 71 |
| NAME DE E | xploration | | | | | | INJECTION | 44 |
| | | allevilla KS 6600 | 2 | | | | INACTIVE | 8 |
| ADDRESS 4595 Highway K33, Wellsville, KS 66092 | | | | | | | | 0 |
| CTAT | US OF BOND | ☐ SINGLE WELL | | ☑ BLANK | ET BOND | Z | ON FILE | |
| | T \$ 160,000 | DUCING/INJECTION ZONE AND EXPECTED NEW | | | | | | |
| INJECTION ZON | E; USE BACK OF FORM IF NE | EUED) | | | | | | |
| | PROPOSED CAS | SINC PROCRAM | | APPROVE | CASING - TO BE | FILLED IN BY ST | ATE GEOLO | GIST |
| AMOUNT | | WT/FT | CEM. | AMOUNT | SIZE | WT/FT | ATE GEOLO | CEM. |
| AMOUNT 20' | SIZE 7" | 14 | 8 sks | 20 | 7" | 14 | /11 | 1 11 |
| | 2 7/8" | | 100 sks | 650 | 27/8 | 6.5 | Full | enutr |
| 650' | 2776 | 6.5 | 100 SKS | 650 | 2/8 | 6.3 | |),, |
| | | | | | | | | |
| report, and complete to | signed, state that I are that this report was p the best of my know | repared under my | ne <u>KREd</u> (Com y supervision an | pany), and that I and that I and the | am authorized by at the facts state | ed therein are | y to make true, correc | this ct, and |
| SIGNATURE | K | | | | | DATE | 10/12 | |
| PERMIT NUMBE | The same of the sa | | DRILLER'S LOC | G REQUIRED | ₩ E-LOG | S REQUIRED IF F | RUN | |
| | 20989 | | | IS REQUIRED IF RUN | | SYSTEM TEST IN | | ED IF RUN |
| APPROVED DAT | 12-20- | 12 | ☐ SAMPLES REC | | | | | |
| | 12 20- | 1.10 | SAMPLES NOT | | | | | |
| APPROVED BY | al /1 | | 7 Table 2 | LES REQUIRED AT | | | | |
| /02 | you VI. | Mmar | | | | | | |
| NOTE > | THIS PERMIT NOT THIS PERMIT BY T MERITS OF THE PI | HE OIL AND GAS | S COUNCIL DO | ES NOT CONSTI | TUTE ENDORS | EMENT OF T | HE GEOL | OGIC |

ONE (1) COPY WILL BE RETURNED Leech of the Utah (Company), confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative. DRILLER'S SIGNATUR PROPOSED OPERATIONS DATA PROPOSED AVERAGE DAILY INJECTION PRESSURE 300 PSIG, RATE .035 VOLUME 50 APPROVED AVERAGE DAILY INJECTION, (TO BE FILLED IN BY STATE GEOLOGIST) PRESSURE 300 PSIG, RATE BPD/GPM, VOLUME 57 BBL/GAL PROPOSED MAXIMUM DAILY INJECTION, PRESSURE 300 PSIG. RATE VOLUME 50 APPROVED MAXIMUM DAILY INJECTION. BBLIGAL (TO BE FILLED IN BY STATE GEOLOGIST) PRESSURE 300 PSIG, RATE BPD/GPM, VOLUME BBL/GAL ESTIMATED FRACTURE PRESSURE GRADIENT OF INJECTION ZONE 0.43PSI/FOOT DESCRIBE THE SOURCE OF THE INJECTION FLUID Squirrel sandstone produced water and rural water NOTE > SUBMIT AN APPROPRIATE ANALYSIS OF THE INJECTION FLUID. (SUBMIT ON SEPARATE SHEET) DESCRIBE THE COMPATIBILITY OF THE PROPOSED INJECTION FLUID WITH THAT OF THE RECEIVING FORMATIONS, INCLUDIUNG TOTAL DISSOLVED We have been using these injection fluids since the waterflood began with no issues. The formations respond to injection fluids. The injection fluids consist of recycled formation water and fresh water. GIVE AN ACCURATE DESCRIPTION OF THE INJECTION ZONE INCLUDING LITHOLOGIC DESCRIPTIONS, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, The upper, middle, and lower Squirrel Sandstone depth ranges from 500-600 feet with an average thickness of 90 feet. The upper Squirrel is generally 30 feet thick with 21% average porosity and 172 millidarcy's average permeability. The middle Squirrel is generally 20 feet thick with 22% average porosity and 1,000 millidarcy's average permeability. The lower Squirrel is generally 40 feet thick with 20.5% average porosity and 593 millidarcy's average permeability. GIVE AN ACCURATE DESCRIPTION OF THE CONFINING ZONES INCLUDING LITHOLOGIC DESCRIPTION, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, The confining layers of the Squirrel Sandstone consist of the the Fort Scott group above the sandstone and the Verdigris formation below the sandstone. The Fort Scott contains two prominent shales, the Blackwater Creek and the Excello, as well as the Blackjack Creek limestone that has a total thickness of 30-50 feet. The Verdigris formation consists of the the Ardmore limestone member and the Oakley shale with a total thickness of 20-40 feet. The zones are impermeable at less than 3% porosity. SUBMIT ALL AVAILABLE LOGGING AND TESTING DATA ON THE WELL GIVE A DETAILED DESCRIPTION OF ANY WELL NEEDING CORRECTIVE ACTION THAT PENETRATES THE INJECTION ZONE IN THE AREA OF REVIEW (1/2 MILE RADIUS AROUND WELL). INCLUDE THE REASON FOR AND PROPOSED CORRECTIVE ACTION.

No corrective action needed.







STATE OF MISSOURI MISSOURI DEPARTMENT OF NATURAL RESOURCES GEOLOGICAL SURVEY PROGRAM

AUG 06 2012

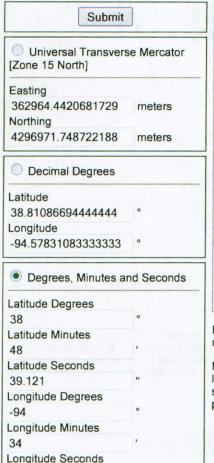
FORM OGC-41

INJECTION WELL LOCATION PLAT Mo Oil & Gas Council OWNER'S NAME Kansas Resource Exploration & Development, LLC (K.R.E.D) LEASE NAME Belton Unit - RW-80 Cass WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES) 3113 ft. from North South section line 3182 ft. from ☑East ☐West section line WELL LOCATION Sec. 16 Township 46 North Range 33 ☐ East LATITUDE LONGITUDE N38° 48' 39.121" / W94° 34' 41.919" / Belton Unit WW-80 31821 Clurk REMARKS 3113/ Section 16 is an irregular section and larger than one square mile. Plat Map Scale - 1 Square = 682.25 feet This is to certify that I have executed a survey to accurately INSTRUCTIONS locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat. On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked. REGISTERED LAND SURVEY NUMBER



Check Location

Select a coordinate format, enter a pair of coordinates in the boxes below it, and then press the SUBMIT button. Please be patient while your information is retrieved. Your coordinates will be converted to the other formats, the information on the right-hand side of the page will be filled in based on your coordinates, and a map will be generated. NOTE: All coordinates must use the North American Datum of 1983 (NAD83).



UTM Zone 15N [Easting, Northing] [362964.4, 4296971.7] meters Decimal Degrees [Lat, Lon] [38.810866°, -94.578311°] [38° 48' 39.1", -94° 34' 41.9"] Deg, Min, Sec [Lat, Lon] **County Name** Cass **County FIPS Code** Legal Description Section 16 T46N R33W Municipality NO VALUE **House District** 123 **Senate District** 31 **Congressional District MoDNR Region** Kansas City Regional Office USGS 1:24,000 Quadrangle Belton [38094-G5] 8 Digit Watershed 10300101 [Lower Missouri-Crooked] 10 Digit Watershed 1030010101 [Blue River] 12 Digit Watershed 103001010104 [Camp Branch-Blue River] Special Well Drilling Area Area 2 **Ecological Drainage Unit** Central Plains/Blackwater/Lamine Level III Ecoregion Central Irregular Plains **Query Time** 5.078 s

Rows with red text indicate that the input location is too close to a boundary to produce reliable results.

NOTE: A result of 'NO VALUE' is usually an indication that no data was found for the location. For example, not every point in Missouri will lie within a municipal boundary, so some will result in a 'NO VALUE'. If 'County Name' results in 'NO VALUE', your point probably lies outside the state.

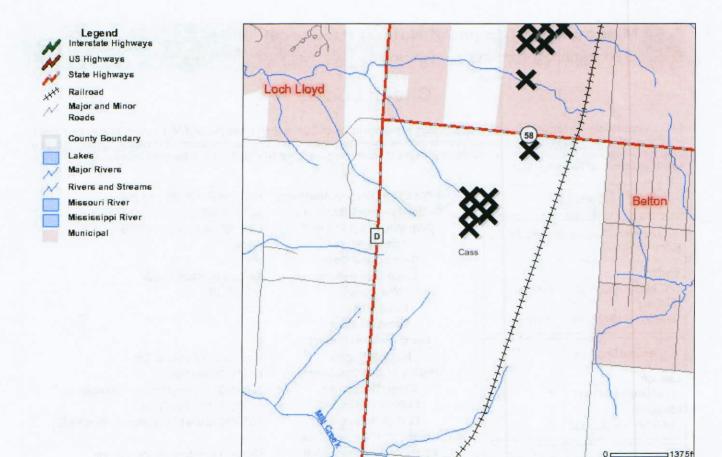
Well ID: #005390
Elev. 1069
P. : 229'elev. Pc-M: 345'
Well ID: #026255 in lease
Pc=535'TD

1083-535-345 => P ~ 203' eleu

Metadata

41,919

- Interstate Highways
- · US Highways
- State Highways
- Railroad
- · Major and Minor Roads
- County Boundary
- Lakes
- · Major Rivers
- · Rivers and Streams
- Missouri River
- Mississippi River
- Municipal



View Scale 1:24,000

DISCLAIMER: Although this map has been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials.

Tuesday, September 11, 2012 10:01:10 AM CDT Missouri Department of Natural Resources



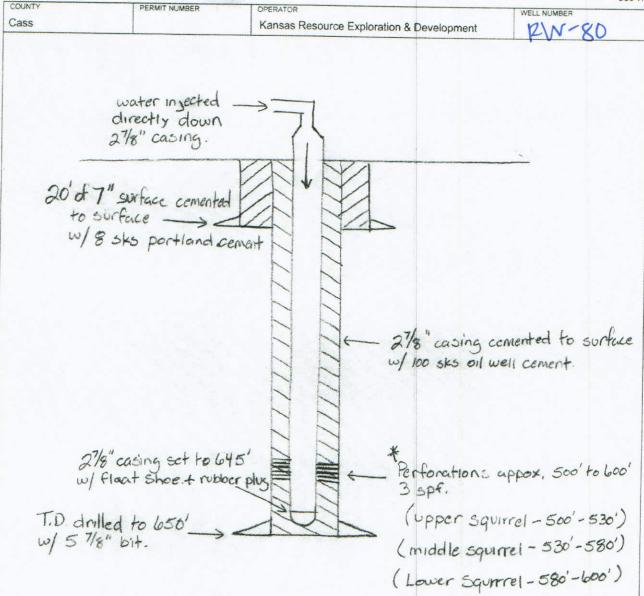
P.O. Box 176, Jefferson City, MO 65102 800-361-4827 / 573-751-3443 E-mail: contact@dnr.mo.gov



STATE OF MISSOURI MISSOURI DEPARTMENT OF NATURAL RESOURCES GEOLOGICAL SURVEY PROGRAM

INJECTION WELL SCHEMATIC

OGC-11



INSTRUCTIONS ON THE ABOVE SPACE DRAW A NEAT, ACCURATE SCHEMATIC DIAGRAM OF THE APPLICANT INJECTION WELL, INCUDING THE FOLLOWING: CONFIGURATION OF WELLHEAD, TOTAL DEPTH OR PLUG BACK TOTAL DEPTH, DEPTH OF ALL INJECTION OR DISPOSAL INTERVALS, AND THEIR FORMATION NAMES, LITHOLOGY OF ALL FORMATIONS PENETRATED, DEPTHS OF THE TOPS AND BOTTOMS OF ALL CASING AND TUBING, SIZE AND GRADE OF ALL CASING AND TUBING, AND THE TYPE AND DEPTH OF PACKER, DEPTH, LOCATION, AND TYPE OF ALL CEMENT, DEPTH OF ALL PERFORATIONS AND SQUEEZE JOBS, AND GEOLOGIC NAME AND DEPTH TO BOTTOM OF ALL UNDERGROUND SOURCES OF DRINKING WATER WHICH MAY BE AFFECTED BY THE INJECTION. USE BACK IF ADDITIONAL SPACE IS NEEDED, OR ATTACH SHEET.

The surface casing is 7" in diameter and is new, limited service grade pipe. The 7" is drifted and tested to 7,000 lbs. and weighs at least 17 lbs. per foot. The surface casing will be set to a minimum depth of 20 feet and extend 6 inches above the surface. Approximately 8 sacks of Portland cement will be circulated to surface and will secure the well and ensure the contents of the well bore are sealed off from sources of drinking water. The production casing used is 2 7/8" EUE upset, drifted and tested to 7,000 lbs. No tubing will be ran in the injection wells, the injection fluid will be injected directly down the 2 7/8" casing. The total depth of the well will be approximately 650 feet drilled with a 5 5/8" bit. A 2 7/8" flapper type float shoe will be set at the base of the 2 7/8" casing pipe (645 feet) with centralizers installed to center the casing inside the well bore for better cement bonding. The 2 7/8" casing will be cemented from 650 feet to surface using a 2 7/8" rubber plug for displacing the cement. Approximately 100 sacks of high-grade Oil Well cement will be used to cement all wells. This cement will ensure that no contents of the pipe will leave the well bore. The top of the 2 7/8" casing will extend approximately one foot above ground level. After the cement has cured and effectively bonded to the 2 7/8" casing, perforations will be made in the Squirrel Sandstone formation from approximately 500-600 feet, depending on where the oil sand is present at this particular location. Wells will be shot with 3 perforations per foot where the squirrel sandstone oil reservoir is present and capable of water injection. No water sources are present at this depth and will not be affected by these perforations or the injection. The relevant sources of drinking water are located less than 20 feet below surface. The 7" surface pipe and durable Portland cement ensures these water sources will remain free from contamination from drilling and injection activity. Other sources of potential usable water may be present, however not always potable, in the Pennsylvanian and Mississippian formations located approximately 150 feet or deeper below the base of the Squirrel Sandstone.

The lithology of all formations penetrated by the wellbore are as follows:

| Formation | Total Depth (feet) |
|-----------|--------------------|
| Soil | 0-2 |
| Clay | 2-6 |
| Lime | 6 – 28 |
| Shale | 28 – 49 |
| Lime | 49 – 64 |
| Shale | 64 – 69 |
| Red Bed | 69 – 78 |
| Shale | 78 – 82 |

| Lime | 82 – 87 | |
|-------------------------|-----------|-----------------------|
| Shale | 87 – 105 | |
| Gray Sand | 105 – 124 | |
| Shale | 124 – 128 | |
| Lime | 128 – 130 | |
| Shale | 130 – 147 | |
| Lime | 147 – 177 | |
| Shale (Slate 183 – 184) | 177 – 186 | |
| Lime | 186 – 204 | |
| Shale (Slate 207 – 208) | 204 – 209 | |
| Lime | 209 – 211 | |
| Shale | 211 – 214 | |
| Lime "Hertha" | 214 – 220 | Top Pawnee Limestone |
| Shale | 220 – 259 | |
| Lime | 259 – 260 | Ž |
| Gray Sand "Knobtown" | 260 – 262 | |
| Shale | 262 – 324 | |
| Gray Sand | 324 – 329 | |
| Shale | 329 – 358 | |
| Gray Sand | 358 – 362 | Base Pawnee Limestone |
| Shale | 362 – 399 | Top Labette Shale |
| Lime | 399 – 401 | |
| Shale | 401 – 404 | |
| Lime | 404 – 406 | |
| Shale (Slate 411 – 412) | 406 – 417 | |
| Lime | 417 – 424 | |
| Shale | 424 – 427 | |
| Gray Sand | 427 – 431 | Base Labette Shale |
| | | |

| Shale | 431 – 443 | Top Fort Scott |
|-------------------------|---------------|-----------------------------|
| Lime | 443 – 448 | · BlackJack Creek Limestone |
| Shale (Slate 452 – 453) | 448 – 469 | Summit Coal |
| Gray Sand | 469 – 471 | Base Fort Scott |
| Sdy. Shale | 471 – 501 | |
| Very laminated Sand | 501 – 502 | Top - Squirrel Sandstone |
| Sandy Lime | 502 - 503 | |
| Slightly lamin. Sand | 503 – 504 | |
| Sandy Lime | 504 – 505 | |
| Solid Sand | 505 - 506.5 | |
| Shale | 506.5 - 507 | |
| Slightly lamin. Sand | 507 – 507.5 | |
| Sandy Shale | 507.5 – 509.5 | |
| Solid Sand | 509.5 - 510.5 | |
| Sandy Lime | 510.5 - 511.5 | |
| Solid Sand | 511.5 – 515.5 | |
| Sandy Lime | 515.5 - 518 | |
| Solid Sand | 518 – 520 | |
| Sandy Lime | 520 - 521 | |
| Solid Sand | 521 – 525 | |
| Sandy Lime | 525 – 526 | |
| Laminated Sand | 526 – 527 | |
| Sandy Shale | 527 - 528.5 | |
| Sandy Lime | 528.5 – 530 | |
| Solid Sand | 530 – 533 | |
| Sandy Lime | 533 – 534 | |
| Sandy Shale | 534 – 535 | |
| Slightly laminated Sand | 535 – 536.5 | |
| | | |

| Sandy Lime | | |
|---------------------------|---------------|---------------------------|
| | 536.5 – 538 | |
| Solid Sand | 538 – 539 | |
| Lime and Shells | 539 – 541 | |
| Sand lamin. w/ Sandy Lime | 541 – 542 | |
| Lime and Shells | 542 – 543 | |
| Solid Sand | 543 – 544.5 | |
| Sandy Lime and Shells | 544.5 - 547.5 | 5 |
| Sand and Shells | 547.5 – 548.5 | |
| Lime and Shells | 548.5 – 552 | |
| Solid Sand | 552 – 553 | |
| Lime and Shells | 553 – 555.5 | |
| Sand and Shells | 555.5 – 559.5 | |
| Lime and Shells | 559.5 - 563.5 | |
| Solid Sand | 563.5 - 582.5 | |
| Slightly laminated | 582.5 - 583.5 | |
| Shale and Shells | 583.5 – 587.5 | |
| Solid Sand | 587.5 – 590.5 | |
| Sand and Shells | 590.5 - 591.5 | |
| Solid Sand | 591.5 - 593 | |
| Lime | 593 – 593.5 | |
| Very laminated Sand | 593.5 – 596 | Base – Squirrel Sandstone |
| Shale (Slate 610 – 611) | 596 – 616 | Top – Verdigris |
| Lime | 616 – 617 | Ardmore Limestone |
| Shale (Slate 621 – 622) | 617 – 650 | Oakley Shale |
| | | |

Re: Closure Pressure

Attached is a reproduction from "Production Operations, Vol. 2" by Allen and Roberts describing the fracturing pressures in a reservoir.

The fracture propagation pressure is approximately the same as the closure pressure, although slightly higher. This difference is less significant in low pressure reservoirs such as the ones in the Cherokee Basin, consequently, they are considered to be the same. The fracture propagation pressure is the same as the instantaneous shut-in pressure (ISIP) experienced upon cessation of a hydraulic fracture treatment. The ISIP from a fracture procedure is the surface pressure measurement. Bottom-hole ISIP must be calculated by adding the surface ISIP and the product of the depth to mid-perforations (feet) and the pressure gradient of the fluid in the wellbore (psi/foot). For fresh water the fluid gradient is 0.434 psi/foot. Since the fluid in fracture operations is more dense than fresh water most engineers estimate the bottom-hole ISIP with a higher gradient. The state of Oklahoma uses a gradient of 0.50 psi/foot.

Utilizing ISIP's experienced at Belton, and a fresh water gradient of 0.434, the calculated bottom-hole ISIPs are:

| WELL | DEPTH TO MID-PERF | ICID (Conference) | |
|--|-------------------|-------------------|--------------|
| R32 | 626 | ISIP (Surface) | ISIP (Perfs) |
| R32 | | 400 | 672 |
| | 585 | 350 | 604 |
| R31 | 600 | 400 | |
| R31 | 552 | | 660 |
| R47 | | 350 | 640 |
| 7479450000000000000000000000000000000000 | 620 | 325 | 594 |
| AD20 | 536 | 400 | 633 |
| AD20 | 582.5 | 400 | |
| AD9-2 | 610 | | 653 |
| AD9-2 | | 400 | 665 |
| | 507 | 400 | 620 |
| AD16-2 | 544 | 400 | 636 |
| | | | |

The fracture propagation pressure is the pressure in which the aperture of the existing fractures can begin to be opened. An increase in injection rate is noted at this point on injection step-rate tests. At injection pressures at, or slightly above, the ISIP, the fractures in the immediate vicinity of the wellbore (inches) may be affected but not into the reservoir significantly. In actual injection operations of a waterflood at ISIP, fractures wouldn't be created beyond the region adjacent to the wellbore because of; 1) fluid leak-off into the formation, 2) the injection of a low viscosity fluid, and 3) the extremely low injection rates - far less than what is necessary to create a fracture.

minimum stress at the borehole, and must also overcome the tensile strength of the rock. This can be expressed as follows:

$$(P_i)_* = 3 \, \tilde{\sigma}_{k_2} - \tilde{\sigma}_{k_1} + S_k + P$$
 (5)

where:

(P_i), = borehole pressure required to initiate vertical fracture

 $\tilde{\sigma}_{s_i} = \text{maximum principal horizontal matrix stress}$

 $\tilde{\sigma}_{_{A_2}} = \text{minimum}$ principal horizontal matrix stress

 S_k = horizontal tensile strength of rock

P = formation pore pressure

Penetrating Fluid Reduces Breakdown Pressure— A penetrating fluid increases the area over which pressurized fluid contacts the formation and can reduce the pressure necessary to initiate fracturing.

Laboratory and theoretical work by Fairhurst and Haimson²¹ provides a basis for estimation of the magnitude of reduction in openhole. Generally reduction may be on the order of 25 to 40% in openhole.

Perforation Density and Orientation—Recent laboratory work in cased hole shows that breakdown or frac initiation pressure is affected by the number and arrangement of perforations.²⁵

The existence of casing and the arrangement of perforations have little effect on created fracture orientation, but breakdown pressure is reduced by increased number of perforations. The practice of perforating with all shots in a vertical line on one side of the casing, Figure 8-6 significantly increases

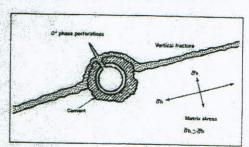


FIG. 8-6—Orientation of perforation vs. least horizontal matrix stress. Condition resulting in highest breakdown pressure:

breakdown pressure if the perforations happen to be oriented 90° to the azimuth of the vertical fracture plane. Orientation of perforations does not affect azimuth of the vertical fracture however.

Fracture Propagation

Once the fracture has been created and invaded by pressured fluid, the stress concentration near the wellbore is reduced, and the hydraulic pressure required to extend the fracture must merely overcome the component of the undisturbed stress field normal to the plane of the fracture.

Measuring Propagation Pressure and Frac Gradient—The fracture propagation pressure (and frac gradient) can be obtained during the fracing operation by recording the wellhead pressure immediately after the pumps are shut down following injection into the fracture (Figure 8-7). Since the frac gradient is increased by increased pore pressure, this measurement should be made before the pore pressure is significantly raised by the injected frac fluid.

Wellhead instantaneous shut-in pressure, corrected to the hole bottom by adding the hydrostatic pressure of the wellbore fluid column, is the fracture propagation pressure. Fracture gradient is the fracture propagation pressure divided by the formation depth.

Measuring Rock Matrix Stress—The minimum horizontal rock matrix stress is then:

 $\tilde{\sigma}_{k_1}$ = propagation pressure - pore pressure

This stress is of particular interest because it is the stress which propping agents must withstand in order to hold the fracture open. In actual practice pore pressure can be equated to static reservoir pressure provided fracture propagation pressure is measured before significant frac fluid is injected to raise the pore pressure level near the wellbore.

It should be noted that proppant in the critical area near the wellbore is subjected to more stress than that further away due to lower pore pressure near the wellbore in the producing process, Figure 8-8. This effect may be significant at high drawdown pressures.

Fracture Orientation

Fracture Propagates Perpendicular to Smallest Stress-Rocks fracture in a plane perpendicular to Belton Unit, Cass County, Missouri

Re: Injection Volumes

Injection volumes are determined by using analogy from previous squirrel sandstone water floods that contain similar reservoir characteristics. In the case of the Belton Unit we plan to inject 1 barrel of water for every 1 net foot of oil bearing sandstone. (assuming this rate does not exceed the maximum approved injection pressure) Depending on the duration and impact of the surrounding wells some injection wells may ultimately inject 3 barrels of water for every 1 net foot of oil bearing sandstone.

Due to the permeability variance of the reservoir we typically will not exceed 15' of perforations per injection well.

Example;

Year 1

15' perforations x 1 bbl/ft = 15 BPD injection rate

Year 2

15' perforations x 2 bbls/ft = 30 BPD injection rate

Year 3

15' perforations x 3 bbls/ft = 45 BPD injection rate

We typically do not exceed 3 bbls/ft injection rate, which is why we are requesting only 50 BPD rate.

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

| LEASE | WELL | LOCATION | OWNER | DEPTH | TYPE | DATE | DATE | CONSTRUCTION |
|---------------------|----------------|--|----------|-------|------|------------|------------|---|
| Belton Unit | R-1 | 569 FROM (B) SEC LINE | K.R.E.D. | 619' | 0 | 04/08/1999 | 04/13/1999 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| Belton Unit | R-2 | FROM (E) SEC LINE | K.R.E.D | 600' | 0 | 06/04/1999 | 06/10/1999 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| Belton Unit | R-3 | 242 FROM (NS) SEC LINE 242 FROM (E) WSEC LINE SEC. 16 T. 46 N.R. 33W | K.R.E.D | 665' | 0 | 02/29/2000 | 03/02/0200 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| Belton Unit | R ₄ | 2013 FROM (E) SEC LINE 2013 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W | K.R.E.D | 680' | 0 | 03/02/2000 | 03/07/2000 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| Belton Unit | R-5 | 168 FROM(N)S) SEC LINE 240 6 FROM (E)(N) SEC LINE SEC. 16 T 46 N.R. 33W | K.R.E.D | 639' | 0 | 04/23/2000 | 04/25/2000 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| Belton Unit | R-6 | 171 FROM (N)(S) SEC LINE 2890 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W | K.R.E.D | 608' | 0 | 04/27/2000 | 04/28/2000 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| Belton Unit | R-7 | 571 FROM (S) SEC LINE (S) SEC LINE (E) SEC LINE (E) SEC LINE (E) SEC LINE (E) SEC. 16 T. 46 N.R. 33W | K.R.E.D | 646' | 0 | 05/01/2000 | 05/02/2000 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| Belton Unit | R-8 | 3874 FROM (N)S) SEC LINE 3874 FROM (E)(W) SEC LINE SEC. 16 T. 46 N.R. 33W | K.R.E.D | 655' | 0 | 05/05/2000 | 05/08/2000 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| Belton Unit | R-9 | SEC. 16 T. 46 N.R. 33W | K.R.E.D | 651' | 0 | 05/03/2000 | 05/05/2000 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| MO 100-1100 (02-11) | | | | | | | | |

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

completion of information, detailing the cement, casing, and subsurface casing information.

| MO 780-1136 (02-11) | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | LEASE |
|------------------------|---|--|--|---|--|---|---|---|---|-------------------|
| 02-11) | | | | | | | | Jnit | Jnit | |
| | R-18 | R-17 | R-16 | R-15 | R-14 | R-13 | R-12 | R-11 | R-10 | WELL NO. |
| SEC. 16 T. 46 N.R. 33W | RO | 1110 FROM(I)(S) SEC LINE (E)(M)SEC L | 25116 FROM (8) SEC LINE 25116 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W | 573 FROM (1)(8) SEC LINE 5735 FROM (E)(M)SEC LINE SEC. 16 T. 46 N.R. 33W | 174 FROM (WS) SEC LINE 3330 FROM (E) (W) SEC LINE SEC. 16 T. 46 N.R. 33W | 983 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W | SEC. 16 T. 46 N.R. 33W | 567 FROM (N/S) SEC LINE TO SEC 16 T. 46 N.R. 33W | 1005 FROM(N)(S) SEC LINE 1980 FROM (E)(W) SEC LINE SEC. 16 T. 46 N.R. 33W | LOCATION |
| | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D. | OWNER |
| | 914.5' | 686' | 652.5' | 621' | 637' | 620' | 642' | 626' | 627' | DEPTH |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | TYPE |
| | 01/07/2004 | 01/29/2004 | 10/13/2003 | 12/15/2000 | 09/17/2001 | 05/22/2000 | 05/16/2000 | 05/10/2000 | 05/15/2000 | DATE SPUDDED |
| | 01/09/2004 | 01/30/2004 | 10/15/2003 | 12/20/2000 | 09/19/2001 | 05/24/2000 | 05/18/2000 | 05/12/2000 | 05/16/2000 | DATE COMPLETED |
| | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | CONSTRUCTION |

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other completion of information, detailing the cement, casing, and subsurface casing information. specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

MO 780-1136 (02-11) Belton Unit **RI-2** R-1 R-25 R-24 R-23 R-22 R-21 R-20 R-19 WELL NO. 2425 FROM (EXM) SEC LINE 3653 FROM (E) SEC LINE FROM (E)(W)SEC LINE SEC. 16 T. 46 N.R. 33W 7160 FROM (N)S SEC LINE 2015 FROM (Eyw) SEC LINE 2320FROM (N) SEC LINE FROM (N) SEC LINE FROM (N)(S) SEC LINE SEC. 16 SEC. 16 SEC. 16 T. 46 N.R. 33W 1132 FROM (B) (S) SEC LINE SEC. 16 T. 46 N.R. 33W FROM (E)(W) SEC LINE FROM (N) SEC LINE SEC. 16 T 46 N.R 33W SEC. 16 T. 46 N.R. 33W SEC. 16 FROM (N/S) SEC LINE FROM (S) SEC LINE T 46 N.R. 33W _T. 46 N.R. 33W T. 46 T. 46 LOCATION N.R. 33W N.R. 33W K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D OWNER 621.5 623 627 660 660 DEPTH 658 635 661 660 TYPE 0 0 0 0 0 0 0 07/26/2000 01/25/2008 01/14/2008 01/18/2008 02/12/2004 12/04/2008 SPUDDED DATE 08/31/2000 01/16/2008 Z 01/22/2008 02/13/2004 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 4 1/2" casing cemented to surface 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump CONSTRUCTION

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

| | | | | | | SEC. 16 T. 46 N.R. 33W | | MO 780-1136 (02-11) | |
|---|------------|------------|----------|--------|----------|---|-------------|---------------------|--|
| 4 1/2" casing cemented to surface | 01/15/2004 | 01/13/2004 | _ | 647.5' | K.R.E.D | 20 20 | RW-9 | Belton Unit | |
| 4 1/2" casing cemented to surface | 02/13/2004 | 02/12/2004 | - | 641.5' | K.R.E.D | SEC. 16 T 46 N.R. 33W | RW-8 | Belton Unit | |
| 4 1/2" casing cemented to surface Plugged 6/3-7/13 - Squeezed | 02/11/2004 | 02/10/2004 | P) ugged | 638' | K.R.E.D | 374 FROM (S) SEC LINE 3115 FROM (E) SEC LINE SEC. 16 T 46 N.R. 33W | RW-7 | Belton Unit | |
| Squeezed | U | U | Plugged | 571' | K.R.E.D | 110 FROM (N/S) SEC LINE 124 FROM (E/W) SEC LINE SEC. 16 T 46 N.R. 33W | C-18 | Belton Unit | |
| | 04/14/2001 | 04/16/2001 | ٤ | 891' | K.R.E.D | WSW-13521 FROM (EW) SEC LINE SEC. 16 T. 46 N.R. 33W | WSW-1 | Belton Unit | |
| 4 1/2" casing comented to surface A 1/2" casing comented to surface | C | 7 | Physical | 644' | K.R.E.D | 367 FROM (S) SEC LINE 318 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W | RI-6 | Belton Unit | |
| 4 1/2" casing cemented to surface | C | U | - | 637' | K.R.E.D | 790_ FROM (0)(S) SEC LINE (2)(M) SEC LINE (3)(M) SEC LINE (3)(M) SEC. 16 T. 46 N.R. 33W | RI-5 | Belton Unit | |
| 4 1/2" casing cemented to surface | 08/29/2000 | 08/25/2000 | | 641' | K.R.E.D | 1377 FROM(N)(s) SEC LINE 220 FROM (E)(0) SEC LINE SEC. 16 T. 46 N.R. 33W | RI-4 | Belton Unit | |
| 4 1/2" casing cemented to surface | د | U | - | 635' | K.R.E.D. | 1214 FROM((8) SEC LINE 2672 FROM (E) (6) SEC LINE SEC. 16 T. 46 N.R. 33W | RI-3 | Belton Unit | |
| CONSTRUCTION | DATE | SPUDDED | TYPE | DEPTH | OWNER | LOCATION | WELL NO. | LEASE | |

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

completion of information, detailing the cement, casing, and subsurface casing information.

| 12/10/2007 |
|------------|
| 01/04/2008 |
| |
| V/A |
| A/N |
| 02/09/2004 |
| 02/06/2004 |
| 02/03/2004 |
| DATE |

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

| Belt | Bell | Bel | Bel | Bel | Be | Be | Be | Be | |
|---|--|--|--|---|--|---|--|---|-----------------|
| Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | LEASE |
| AD-12 | AD-11 | AD-10 | AD-9 | AD-8 | AD-7 | AD-6 | AD-5 | AD-4 | WELL NO. |
| AD-12 3801 FROM (EXM) BEC LINE SEC. 9 T. 46 N.R. 33W | SEC. 9 T. 46 N.R. 33W | FROM (R) SEC LINE 123 FROM (E) SEC LINE SEC. 9 T. 46 N.R. 33W | 383 FROM (NG) SEC LINE SEC. 9 T. 46 N.R. 33W | 340 FROM (N) SEC LINE SEC. 9 T. 46 N.R. 33W | 251 FROM (N(S))BEC LINE 2581 FROM (EVW) SEC LINE SEC. 9 T. 46 N.R. 33W | FROM (N'S)SEC LINE SISSOFROM (E) (M) SEC LINE SEC. 9 T. 46 N.R. 33W | 220 FROM (N) SEC LINE 410 FROM (E) SEC LINE SEC. 9 T. 46 NR. 33W | | |
| K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D. | OWNER |
| 710' | 665' | 659' | 662' | 622' | 630' | 708' | 679' | 666' | DEPTH |
| 0 | Plugged | 0 | Plugged | 0 | 0 | 0 | 0 | 0 | TYPE |
| 01/23/2008 | 4361 | 05/25/1987 | 08/25/1987 | 05/14/1999 | 12/12/2007 | 01/31/2008 | 06/21/1987 | 07/14/1987 | DATE SPUDDED |
| 02/26/2008 | 1861 \ | 07/21/1987 | 100 | 05/27/1999 | 12/14/2007 | 02/19/2008 | 06/25/1987 | 07/16/1987 | DATE |
| 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface Squeezed cement into formation to surface on 03/19/2012 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface Squeezed cement into formation to surface on 04/04/2012 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | CONSTRUCTION |

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other completion of information, detailing the cement, casing, and subsurface casing information. specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

MO 780-1136 (02-11) Belton Unit AD-23 AD-22 AD-21 AD-17 AD-18 AD-16 AD-15 AD-14 SHOT FROM (E) SEC LINE AD-13 WELL NO. FROM (E) SEC LINE SEC. 9 4212 FROM (E) SEC LINE FROM (E) SEC LINE 3800 FROM (E) W SEC LINE 4225 FROM (E) SEC LINE 539 FROM (N) SEC LINE 300 FROM (B)(W) SEC LINE 5 35 FROM (N)(S) SEC LINE SEC. 9 SEC. 9 SEC. 9 SOTFROM (E) SEC LINE FROM (NS) SEC LINE 2420 FROM (B)(W) SEC LINE 210 FROM (N)(S) SEC LINE FROM (N) SEC LINE SEC. 9 100 FROM (N) SEC LINE PROM (N) SEC LINE T. 46 T. 46 N.R. 33W т. 46 T. 46 T. 46 _T. 46 T. 46 T. 46 LOCATION N.R. 33W K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D. K.R.E.D OWNER 644 676.5 650 656 647 666 617 609 DEPTH 700 Plugged Plugged 0 0 0 0 0 TYPE 0 0 09/09/2003 06/13/1999 09/11/2003 01/02/2008 1861-M 1861/52/10 11/13/1989 04/21/1999 12/21/2007 SPUDDED 09/11/2003 06/18/1999 09/12/2003 02/26/2008 て/ア DATE 11/14/1989 05/13/1999 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface Squeezed cement into formation to surface on 04/04/2012 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump Cemented from bottom to top on 12/27/2007 CONSTRUCTION

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

| MO 780-1136 (02-11) | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | LEASE |
|---------------------|-----------------------------------|---|---|---|---|--|---|---|--|-------------------|
| | ADI-27 | ADI-26 | ADI-25 | ADI-24 | ADI-19 | ADI-18 | AD-29 | AD-28 | AD-24 | NO. |
| | SEC 9 TAG N.B. 33W | FROM (N) SSEC LINE 1975 FROM (E) (W) SEC LINE SEC. 9 T. 46 N.R. 33W | FROM (N) SEC LINE SEC. 9 T. 46 N.R. 33W | 394 FROM (N)(8) BEC LINE 3(02) FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W | FROM (NG) SEC LINE (P) FROM (E) (M) SEC LINE (E) (M) SEC LINE (E) (M) SEC LINE (E) (E) (E) (E) (E) (E) (E) (E) (E) (E | 1151 FROM (N/S) SEC LINE 12075 FROM (E) (M) SEC LINE SEC. 9 T. 46 N.R. 33W | HIM FROM (N) SEC LINE HIM FROM (E) SEC LINE SEC. 9 T. 46 N.R. 33W | 17 FROM (N/S)/SEC LINE 145 FROM (E)(M) BEC LINE SEC. 9 T. 46 N.R. 33W | 300_ FROM (N)(S)SEC LINE 300_ FROM (B)(W) SEC LINE SEC. 9 T. 46 N.R. 33W | LOCATION |
| | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D | K.R.E.D. | OWNER |
| | 674.1' | 650.5' | 651.5' | 662' | 654.5' | 651.5' | 625' | 629' | 672.5 | DEPTH |
| | Í | - | _ | - | - | - | 0 | 0 | 0 | TYPE |
| | 01/04/2008 | 09/17/2003 | 09/12/2003 | 09/16/2003 | 10/07/2003 | 10/09/2003 | 06/18/1999 | 07/08/1999 | 12/27/2007 | DATE SPUDDED |
| | 04/16/2008 | 09/19/2003 | 09/15/2003 | 09/17/2003 | 10/08/2003 | 10/10/2003 | 07/07/1999 | 07/14/1999 | 02/06/2008 | DATE COMPLETED |
| | 4 1/2" casing cemented to surface | 4 1/2" casing cemented to surface | 4 1/2" casing cemented to surface | 4 1/2" casing cemented to surface | 4 1/2" casing cemented to surface | 4 1/2" casing cemented to surface | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump | CONSTRUCTION |

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

| LEASE | WELL | LOCATION | OWNER | DEDTI | Si ileasii A | DATE DATE | 7 | |
|---------------|--------|---|----------|--------|--------------|------------|------------|-----------------------------------|
| | | FROM (N/S) SEC LINE | | 00715 | IYPE | SPUDDED | COMPLETED | CONSTRUCTION |
| Belton Unit | ADI-30 | ADI-30 ROM (B)(W) SEC LINE SEC. 9 T. 46 N.R. 33W | K.R.E.D. | 627.7' | - | 12/19/2007 | 04/16/2008 | 4 1/2" casing cemented to surface |
| Belton Unit | ADI-31 | ADI-31 860 FROM (N) SEC LINE SEC. 9 T. 46 N.R. 33W | K.R.E.D | 633' | - | 05/27/1999 | 06/04/1999 | 4 1/2" casing cemented to surface |
| Belton Unit | ADI-32 | FROM (NG) FROM (E) FROM (E) FROM (E) FROM (E) FROM (NG) | K.R.E.D | 649' | - | _ | C | 4 1/2" casing cemented to surface |
| Belton Unit | ADI-33 | 881 FROM (N) Sec LINE (N) SEC LINE (N) SEC LINE (N) SEC LINE (N) SEC. 9 T. 46 N.R. 33W | K.R.E.D | 642' | - | < | C | 4 1/2" casing cemented to surface |
| Belton Unit | ADI-34 | 879 FROM (N) SEC LINE 1871 FROM (E) (M) SEC LINE SEC. 9 T. 46 N.R. 33W | K.R.E.D | 663 | - | < | C | 4 1/2" casing cemented to surface |
| Belton Unit | ADI-37 | ADI-37 PROM (N)© SEC LINE SEC. 9 T. 46 N.R. 33W | K.R.E.D | 618.2 | _ | 12/13/2007 | 04/16/2008 | 4 1/2" casing cemented to surface |
| Belton Unit | ADI-38 | FROM (N/S SEC LINE TIME) FROM (B)(W) SEC LINE SEC. 9 T. 46 N.R. 33W | K.R.E.D | 668.9' | - | 12/17/2007 | 04/16/2008 | 4 1/2" casing cemented to surface |
| Belton Unit | ADI-39 | | K.R.E.D | 631' | - | C | <i>C</i> | 4 1/2" casing cemented to surface |
| Belton Unit / | ADI-40 | #441 FROM (N)(S) BEC LINE #162 FROM (E)(M) SEC LINE SEC. 9 T. 46 N.R. 33W | K.R.E.D | 664' | - | < | _ | 4 1/2" casing cemented to surface |
| | | | | | | | | |

INSTRUCTIONS

the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

completion of information, detailing the cement, casing, and subsurface casing information. Belton Unit LEASE ADI-41 4909 FROM (E) SEC LINE 9무-1 **OH-8** 0H-6 OH-5 0H-4 OH-3 OH-2 OH-7 WELL NO. 3051 FROM (E) SEC LINE SLOS FROM (E)(O SEC LINE FROM (E)(W) SEC LINE 753 FROM (N)(S) SEC LINE THO FROM (0)(S) SEC LINE SEC. 16 T. 46 N.R. 33W AHOOFROM (E)(W)SEC LINE SEC. 16 SEC. 16 5116 ROM (E) SEC LINE FROM (E) SEC LINE SEC. 9 T. 46 N.R. 33V 3315 FROM (WS) SEC LINE 93+ FROM N(S) SEC LINE SEC. 16 919 SEC. 16 SEC. 16 16 FROM(N)(S) SEC LINE FROM (S) SEC LINE FROM (N)(S) SEC LINE FROM (N) SEC LINE T. 46 N.R. 33W T. 46 T. 46 N.R. 33W T. 46 N.R. 33W T. 46 N.R. 33W LOCATION T. 46 N.R. 33W T. 46 N.R. 33W N.R. 33W N.R. 33W K.R.E.D. K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D OWNER 600' est 600 600' 600' est 600' est 600' est 600' est 600 est 600' est DEPTH est est Plugged Plugged Plugged TYPE 0 0 0 0 0 SPUDDED < < < DATE 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump Squeezed cement into formation to surface Squeezed cement into formation to surface Squeezed cement into formation to surface 1/2" casing cemented to surface CONSTRUCTION

MO 780-1136 (02-11)

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

| 1 | WELL | | | | 9 | · · · · · · · · · · · · · · · · · · · | | |
|-------------|-------|---|----------|----------|---------|---------------------------------------|------------|--|
| LEAGE | NO. | 604 FROM INTEREST INF | OWNER | DEPTH | TYPE | SPUDDED | DATE | CONSTRUCTION |
| Belton Unit | OH-9 | FROM (E) SEC LINE | K.R.E.D. | 600' est | Plugged | <u>_</u> | V | Squeezed cement into formation to surface |
| Belton Unit | UK-1 | 30 | K.R.E.D | С | Plugged | C | Z | 4 1/2" casing cemented to surface Squeezed cement into formation to surface on 04/17/2012 |
| Belton Unit | UK-2 | FROM (N) SEC LINE NAME OF THE PROPERTY OF THE | K.R.E.D | C | Plugged | C | | 4 1/2" casing cemented to surface Squeezed cement into formation to surface on 04/17/2012 |
| Belton Unit | UK-3 | | K.R.E.D | C | 0 | C | < (| 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| Clark-Berry | CB-1 | SEC. 16 T.46 N.R. 33W | K.R.E.D | 625' | 0 | 03/22/1999 | < | 2 7/8" with 1" tubing and insert pump |
| Clark-Berry | CB-2 | SEC. 16 T. 46 N.R. 33W | K.R.E.D | 625' | 0 | C | < | 2 7/8" with 1" tubing and insert pump |
| Clark-Berry | CB-3 | FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W | K.R.E.D | 625' | 0 | 03/25/1999 | 03/30/1999 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| Clark-Berry | CB-4 | 312 FROM (D)(S) SEC LINE 312 FROM (E)(S) SEC LINE SEC. 16 T.46 N.R. 33W | K.R.E.D | 619' | 0 | 03/30/1999 | 04/02/1999 | 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump |
| Clark-Berry | CBI-1 | ROM (E) (N)(S) | K.R.E.D | 629' | - | 03/22/1999 | 03/25/1999 | 4 1/2" casing cemented to surface |
| | | | | | | | | |

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

| | | | | | | | | | | | | | | | | | | | | | | | | | Clark-Berry CBI-2 | LEASE NO. | |
|----------|----------------------|----------------------|-----------|----------------------|----------------------|--------------|----------------------|---|--------------|----------------------|----------------------|---------|----------------------|----------------------|---------|----------------------|----------------------|---------|----------------------|----------------------|----------|----------------------|----------------------|----------------------|-----------------------------------|--------------|---|
| SEC T NR | FROM (E)(W) SEC LINE | FROM (N)(S) SEC LINE | SEC T N.R | FROM (E)(W) SEC LINE | FROM (N)(S) SEC LINE | SEC. T. N.R. | FROM (E)(W) SEC LINE | S | SEC. T. N.R. | FROM (E)(W) SEC LINE | FROM (N)(S) SEC LINE | SECTN.R | FROM (E)(W) SEC LINE | FROM (N)(S) SEC LINE | SECTN.R | FROM (E)(W) SEC LINE | FROM (N)(S) SEC LINE | SECTN.R | FROM (E)(W) SEC LINE | FROM (N)(S) SEC LINE | SECTN.R. | FROM (E)(W) SEC LINE | FROM (N)(S) SEC LINE | SEC.16 T.46 N.R. 33W | 2 23 FROM (E)(W) SEC LINE | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | K.R.E.D. | OWNER | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 634' | DEPTH | |
| | | | | | | | | | | | | | | | | | | | | | | | | | - | TYPE | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 04/02/1999 | SPUDDED | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 04/07/1999 | COMPLETED | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 4 1/2" casing cemented to surface | CONSTRUCTION | |

INSTRUCTIONS

completion of information, detailing the cement, casing, and subsurface casing information. In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

| | VAIT-1 | 9 | out is, union | 20001100 | S cooning in | Caomy mornanon. | | |
|---------------------|--------|-----------------------------|---------------|----------|--------------|-----------------|------------|--|
| LEASE | NO. | LOCATION | OWNER | DEPTH | TYPE | SPUDDED | COMPLETED | CONSTRUCTION |
| Belton Unit | R-26 | 51 00 FROM (N) SEC LINE | K.R.E.D | 643' | Plugged | 03/08/2012 | | Set 21 feet of 8 5/8" surface pipe Squeezed cement from 643' to surface to plug well on |
| | | SEC. 16 T. 46 N.R. 33W | | | | | Comptet | 04/17/2012 |
| | | FROM (N)(S) SEC LINE | | | | | | 685' of 2.7/8" casing comparted to surface |
| Belton Unit | R-27 | 5 718 FROM (E)(W) SEC LINE | K.R.E.D | 700' | 0 | 04/06/2012 | | AND OF THE COST OF COS |
| | | SEC. 16 T. 46 N.R. 33W | | | | | _ | |
| | | 445 FROM (N)(6) SEC LINE | | | | | | RER' of 9 7/8" passing comparted to stufe on |
| Belton Unit | R-28 | 5814 FROM (E)W) SEC LINE | K.R.E.D | 681' | 0 | 04/10/2012 | | obo of 2 1/6 casting certificatio surface |
| | | SEC. 16 T. 46 N.R. 33W | | | | | < | |
| | | FROM (N) SEC LINE | | | | | | 7401 6 4 4 1011 |
| Belton Unit | R-29 | 1076 FROM (F)(W) SEC LINE | K.R.E.D | 750' | 0 | 03/24/2012 | 05/10/2012 | 740 of 4 1/2 casing cemented to surface |
| | | SEC. 16 T. 46 N.R. 33W | | | | | | |
| Relton Unit | R-30 | FROM (N)(S) SEC LINE | ת ח ח | 750' | 0 | 03/23/2012 | 04/20/2042 | 697' of 4 1/2" casing cemented to surface |
| | | SEC. 16 T. 46 N.R. 33W | | | | | | |
| Belton Unit | R-31 | 300 FROM (1)(6)SEC LINE | K.R.E.D | 750' | 0 | 03/27/2012 | 04/27/2012 | 740' of 4 1/2" casing cemented to surface |
| | | SEC. 16 T. 46 N.R. 33W | | | | | | |
| Belton Unit | R-32 | FROM (B)(W) SEC LINE | K.R.E.D. | 750' | 0 | 03/14/2012 | 05/25/2012 | 743' of 4 1/2" casing cemented to surface |
| | | SEC. 16 T. 46 N.R. 33W | | | | | | |
| Belton Unit | R-33 | 72 FROM (B)(W) SEC LINE | K.R.E.D. | 700' | 0 | 03/21/2012 | 05/10/2012 | 663' of 4 1/2" casing cemented to surface |
| | | SEC. 16 T. 46 N.R. 33W | | | | | | |
| Belton Unit | R-36 | R-36 16 T FROM (N)(SEC LINE | K.R.E.D | 760' | 0 | 04/02/2012 | 04/30/2012 | 733.5' of 4 1/2" casing cemented to surface |
| MO 780-1136 (02-11) | | SEC. 16 T. 46 N.R. 33W | | | | | | |
| MO 780-1136 (02-11) | | | | | | | | |

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

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In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

| Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | Belton Unit | LEASE |
|--|--|---|---|---|---|---|--|---|--|
| RW-39 | RW-38 | RW-37 | RW-27 | RW-26 | RW-25 | RW-24 | RW-23 | RW-22 | WELL NO. |
| 5111 FROM (N) & SEC LINE RW-39 10 FROM (N) SEC LINE SEC. 16 T. 46 N.R. 33W | FIND FROM (NY DEC LINE RW-38 3741 FROM (MY DEC LINE RW-38 3741) FROM (MY DEC LINE RW-38 3741) FROM (NY DEC LINE RW-38 3741) FR | S136 FROM (N) SEC LINE RW-37 3208 FROM (E) W) SEC LINE SEC. 16 T. 46 N.R. 33W | | RW-26 16 T. 46 N.R. 33W | 5119 FROM (N) SIDEC LINE RW-25 839 FROM (N) SEC LINE SEC. 16 T. 46 N.R. 33W | FROM (NG)SEC LINE FROM (E)W) SEC LINE SEC. 16 T. 46 N.R. 33W | RW-23 THOM (N)(S)SEC LINE RW-23 TH33 FROM (B)(M) SEC LINE SEC. 16 T. 46 N.R. 33W | RW-22 1087 FROM (N)(6) SEC LINE RW-22 1087 FROM (E)W) SEC LINE SEC. 16 T. 46 N.R. 33W | LEASE WELL LOCATION OWNER DEPTH TYPE SPUDDED |
| K.R.E.D. | K.R.E.D. | K.R.E.D. | K.R.E.D. | K.R.E.D. | K.R.E.D. | K.R.E.D. | K.R.E.D. | K.R.E.D. | OWNER |
| 720' | 730' | 720' | 730' | 730' | 750' | 730' | 730' | 730' | DEPTH |
| _ | _ | - | _ | _ | _ | _ | _ | - | TYPE |
| 05/16/2012 | 07/03/2012 | 05/14/2012 | 05/29/2012 | 05/23/2012 | 05/18/2012 | 05/30/2012 | 05/22/2012 | 06/01/2012 | |
| 07/09/2012 | vonet- | 07/09/2012 | 07/17/2012 | 07/17/2012 | 07/06/2012 | Not | 07/06/2012 | Complete | DATE |
| 686' of 2 7/8" casing cemented to surface | 687' of 2 7/8" casing cemented to surface | 695' of 2 7/8" casing cemented to surface | 682' of 2 7/8" casing cemented to surface | 692' of 2 7/8" casing cemented to surface | 711' of 2 7/8" casing cemented to surface | 565' of 2 7/8" casing cemented to surface | 691' of 2 7/8" casing cemented to surface | 696' of 2 7/8" casing cemented to surface | CONSTRUCTION |

MO 780-1136 (02-11)

INSTRUCTIONS

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| | - | | | | | | | MO 780-1136 (02-11) |
|---|------------|----------------------------------|-------------|----------|---|--------------------------------|------|---------------------|
| | James of | 1 | 1 | | | SEC. 16 T. 46 N.R. 33W | | |
| 659' of 2 7/8" casing cemented to surface | 49 | 06/30/2012 | _ | 730' | K.R.E.D. | RW-50 FROM (W) SEC LINE | RW-5 | Belton Unit |
| | 7 5 1 | | | | | FROM (N) SEC LINE | | |
| | | | | | | SEC. 16 T. 46 N.R. 33W | | |
| 675' of 2 7/8" casing cemented to surface | 07/17/2012 | 06/13/2012 | - | 730' | K.R.E.D. | RW-49 FROM (5)(W) SEC LINE | RW-4 | Belton Unit |
| | | | | | | FROM (N) SEC LINE | | |
| | 4 | | | | | SEC. 16 T. 46 N.R. 33W | | |
| b81" of 2 //8" casing cemented to surface | | 07/13/2012 | | 730' | K.R.E.D. | RW-48 FROM (5)(W) SEC LINE | RW-4 | Belton Unit |
| | | | | | | FROM (N) SEC LINE | | |
| | | | | | | SEC. 16 T. 46 N.R. 33W | | |
| Bonda of the reality certainty of the surface | _ | 07/13/2012 | _ | 730' | K.R.E.D. | 4/ | ZW- | Belton Unit |
| 689' of 2 7/8" casing companied to surface | | | | | | FROM (N) SEC LINE | | |
| | | | | | | SEC. 16 T. 46 N.R. 33W | | |
| a controlling to surface | | 07/13/2012 | _ | 730' | K.R.E.D. | | | ם מונטון טווונ |
| 687' of 2 7/8" casing cemented to surface | | | | | | FROM (N) SEC LINE | | Bolton I hi |
| | | | | | | SEC. 16 T. 46 N.R. 33W | | |
| | | 0//11/2012 | _ | /30 | 7.7.0. | | | |
| 684' of 2 7/8" casing cemented to surface | | | į | 7007 | N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | RW-45 3173 FROM ((W) SEC LINE | | Belton Unit |
| | 1018 | | | | | FROM (N) SEC LINE | | |
| | Same? | | | | | SEC. 16 T. 46 N.R. 33W | | |
| oso of 2 7/8 casing cemented to surface | 1007 | 06/28/2012 | _ | 730' | K.R.E.D. | RW-44718 S FROM (E)W) SEC LINE | | Belton Unit |
| 000'040 7/0" | 5 | | | | | FROM (N)(S) SEC LINE | _ | |
| | | | | | | SEC. 16 T. 46 N.R. 33W | | |
| 672' of 2 7/8" casing cemented to surface | 07/17/2012 | 06/14/2012 | _ | 700' | K.R.E.D. | RW-432135 FROM (B)(W) SEC LINE | | Belton Unit |
| | | | | | | ROM (N)(D)SEC LINE | | |
| | -ample | | | | | SEC. 16 T. 46 N.R. 33W | | |
| 687' of 2 7/8" casing cemented to surface | 34 | 07/03/2012 | - | 730' | K.R.E.D. | RW-48 THOS FROM (1)W) SEC LINE | | Belton Unit |
| CONSTRUCTION | COMPLETED | SPUDDED | | | | 510X FR | - | |
| | DATE | DATE | TYPE | DEPTH | OWNER | LOCATION | WELL | LEASE |
| | | and an end cashing intolliation. | Fillican an | ounguila | it, odomy, and | | | |

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completion of information, detailing the cement, casing, and subsurface casing information.

| | WEI | | | | | DATE | DATE | |
|---------------------|--------|----------------------------------|----------|-------|------|------------|------------|--|
| LEASE | NO. | LOCATION | OWNER | DEPTH | TYPE | SPUDDED | COMPLETED | CONSTRUCTION |
| Belton Unit | AD 9-2 | STON FROM (N) (1) SEC LINE | K.R.E.D. | 760' | 0 | 03/30/2012 | 05/07/2012 | 741' of 4 1/2" casing cemented to surface |
| | | SEC. 9 T. 46 N.R. 33W | | | | | | |
| | | FROM (N) SEC LINE | | | | | | 737' of 4 1/2" casing cemented to surface |
| Belton Unit | AD11-2 | AD11-2 FROM (KW) SEC LINE | K.R.E.D. | 750' | 0 | 03/12/2012 | 04/27/2012 | |
| | | SEC. 9 T. 46 N.R. 33W | | | | | | |
| | | FROM (N) SEC LINE | | | | | | 739' of 4 1/2" casing cemented to surface |
| Belton Unit | AD16-2 | AD16-2 D&LFROM (B)(W) SEC LINE | K.R.E.D. | 760' | 0 | 03/28/2012 | 04/27/2012 | or or a second constitution to constitution |
| | | SEC. 9 T. 46 N.R. 33W | | | | | | |
| Belton Unit | AD-20 | SAUFROM (N)(S) | K.R.E.D | 760' | 0 | 03/29/2012 | 06/11/2012 | 740' of 4 1/2" casing cemented to surface |
| | | SEC. 9 T. 46 N.R. 33W | | | | | | |
| Belton Unit | AD-26 | 1960 FROM (B)(W) SEC LINE | K.R.E.D | 770' | 0 | 04/05/2012 | 06/13/2012 | 745' of 4 1/2" casing cemented to surface |
| | | SEC. 9 T. 46 N.R. 33W | | | | | | |
| Belton Unit | AD-27 | HH FROM (N) SEC LINE | K.R.E.D. | 760' | 0 | 03/30/2012 | 06/13/2012 | 741' of 4 1/2" casing cemented to surface |
| | | SEC. 9 T. 46 N.R. 33W | | | | | | |
| Belton Unit | AD-31 | AD-31 2-342 FROM (D)(W) SEC LINE | K.R.E.D. | 701' | 0 | 04/12/2012 | Not | 688' of 2 7/8" casing cemented to surface |
| | | SEC. 9 T. 46 N.R. 33W | | | | | MAN | |
| | | HO & FROM (NXS) SEC LINE | | | | | | 745' of 4 1/2" casing cemented to surface |
| Belton Unit | AD-32 | FROM (D)(W) SEC LINE | K.R.E.D. | 760' | 0 | 04/06/2012 | 06/28/2012 | |
| | | SEC. 9 T. 46 N.R. 33W | | | | | | |
| | | FROM (N)(6) | | | | | 5 | 741' of 4 1/2" casing cemented to surface |
| Belton Unit | AD-33 | 1476FROM (D/W) SEC LINE | K.R.E.D. | 760' | 0 | 04/03/2012 | 07/04/2012 | THE COURT OF |
| | | SEC. 9 T. 46 N.R. 33W | | | | | | |
| MO 780-1136 (02-11) | | | | | | | | |

INSTRUCTIONS

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AFFIDAVIT OF PUBLICATION

(Space above for recording information)

STATE OF MISSOURI COUNTY OF CASS

55.

I, Janis Anslinger, being duly sworn according that I am the Classified Ad Manager of the Cass Commissourian, a weekly newspaper of general cincounty of Cass, State of Missouri, where newspaper has been admitted to the Post Official class matter in the City of Harrisonville, Missourian published to period of three years and bonafide subscribers, voluntarily engaged as spaid or agreed to pay a stated price for a subdefinite period of time, and that such newspaper with the provisions of Section 493.050, Revise Missouri 2000, and Section 59.310, Revise Missouri 2000. The affixed notice appeared in said the following consecutive issues:

| 1ª Insertion: Vol. | 132 No | 37. | 29 2017 |) |
|--------------------|--------|-----|---------|---|
| 2ª Insertion, Vol. | No. | | day of | |
| 3º Insertion: Vol. | No | | day of | _ |
| 4º Insertion: Vol | No. | | day of | |
| 5º Insertion: Vol | No | | div of | |

Xansas Resource Exploration & Development, LLC, 9393 W 1. St., Ste. 500, Overland Park, KS
662141 has applied for 32 injection well permits to be drilled to an anicomnate depth of 650 feet.
662141 has applied for 32 injection well permits to be drilled to an anicomnate depth of 650 feet.
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662141 has applied for 32 injection well permits to be drilled to an anicomnate depth of 650 feet.

REW-73 3,595 from S line/3,198 from E line, Section 16, Forship 46N, Range 33W artw-72 3,851 from S line/3,195 from E line, Section 16, Forship 46N, Range 33W artw-74 3,856 from S line/3,765 from E line, Section 15, Jovenship 46N, Range 33W artw-74 3,856 from S line/2,765 from E line, Section 16, Jovenship 46N, Range 33W artw-74 3,856 from S line/3,198 from E line, Section 16 (Jovenship 46N, Range 33W artw-75,3472 from S line/3,190 from E line, Section 16 (Jovenship 46N, Range 33W artw-76,3472 from S line/3,190 from E line, Section 16 (Jovenship 46N, Range 33W artw-76,3473 from S line/2,767 from E line, Section 16 (Jovenship 46N, Range 33W artw-76,3473 from S line/2,767 from E line, Section 16 (Jovenship 46N, Range 33W artw-80,3,113 from S line/2,767 from E line, Section 16, Jovenship 46N, Range 33W artw-80,3,113 from S line/2,778 from E line, Section 16 (Jovenship 46N, Range 33W artw-80,3,116 from S line/2,778 from E line, Section 16 (Jovenship 46N, Range 33W artw-80,3,116 from S line/2,778 from E line, Section 16 (Jovenship 46N, Range 33W artw-80,3,116 from S line/2,778 from E line, Section 16 (Jovenship 46N, Range 33W artw-80,3,116 from S line/2,778 from E line, Section 9 (Jovenship 46N, Range 33W artw-80,3,116 from S line/2,778 from E line, Section 9 (Jovenship 46N, Range 33W artw-80,3,116 from S line/1,692 from E line, Section 9 (Jovenship 46N, Range 33W artw-80,3,116 from S line/1,692 from E line, Section 9 (Jovenship 46N, Range 33W artw-80,4,116 from S line/1,692 from E line, Section 9 (Jovenship 46N, Range 33W artw-80,4,116 from S line/1,692 from E line, Section 9 (Jovenship 46N, Range 33W artw-80,4,116 from S line/1,692 from E line, Section 9 (Jovenship 46N, Range 33W artw-80,4,116 from S line/1,692 from E line, Section 9 (Jovenship 46N, Range 33W artw-80,4,116 from S line/1,692 from E line, Section 9 (Jovenship 46N, Range 33W artw-80,4,116 from S line/1,692 from E line, Section 9 (Jovenship 46N, Range 33W artw-80,4,116 from S line/1,693 from E line, Section 9 (Jovenship 46N, Range 33W artw-80,4,116 fr

Written comments or requests for additional information regarding such wells should be:

A directed within fifteen (15) days of this notice to up address below.

30 Pr District

State Geologist
Missouri Oll & Gas Gouncil
P.O. Box 250
Rolla, NO 65401

Subscribed and swom to before me on this 39 d

Jamis Anslinger, Classified Ad Manage

June . 2012

JULIE M. HICKS
Notary Public, Notary Seal
State of Missouri
Cass County
Commission # 09727108
My Commission Expires June 12, 2013

MISSOURI Mechanical Integrity Test



EIVED

2013

| Test Date: 2/1/2013 | 3 | | | Mo Oil & | Gas Counc |
|---|--------------------------|--------------------------|-----------------------|-------------------------------------|----------------|
| Address: 9393 W. | | e. 500 | & Deve | lopment, LLC | |
| Lease: Belton C County: Cass | | Well No.: rmit No.: | RW-80 20,989 | | |
| | TEST INF | FORMATI | ON | | |
| Pressure X | Radioactive Trace | er Survey | | Temperature Surve | ey |
| | Run #1 F | Run #2 | Run #3 | Run #4 | |
| | 8:30 | | | | |
| Start Time: | 9:00 | | • | | |
| End Time: | | | | | |
| Length of Test: | 30 min | | | | |
| Initial Pressure (PSI): | 520 # | | | | |
| Ending Pressure (PSI): | 520 # | | | | |
| Pressure Change: | 0 # | | | | |
| Fluid Used For Test (wate | r, nitrogen, CO2, etc | .):A: | ir | <u> </u> | |
| Perforations: Well | Not Perfed Ye | t | | | |
| Comments: Pressured Casing | X .433 = | | | | |
| 8 | | | | | |
| The bottom of the tested ze. In signing the form below, integrity on the test date sh | it is certified that the | ubber Ple above indicate | Lug at a cated well w | depth of 696 as tested for mecha | feet. nical |
| Signature Ode | Resell | | Со | ntractor | |
| Operator, Contac | ct Person or Approved | Agent | | Title | |
| | | | | | |
| FOR INTERNAL USE ONLY | 7 0 | | | | |
| Results were: Satisfactory | Not Satisfactory | | Computer Upo | late: | |
| Remarks: | | | | | |
| State Agent: SAUER | Witnessed: Yes | No_ | _ | | |
| | !! FILE W | VITH PERMIT | [!! | | |